



Dolan Chemical Laboratory
4001 Bixby Road
Groveport, OH 43125
T: 614-836-4221, Audinet 210-4221
F: 614-836-4168, Audinet 210-4168
<http://aepenv/labs>

Water Analysis

Location: Mountaineer Plant

Report Date: 7/11/2013

1st Stage Feed

Sample Number: 132618-001 **Date Collected: 06/26/2013 08:00** **Date Received: 6/26/2013**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	19.4	ug/L		0.10	0.030	DPC	07/01/2013 12:05	EPA 200.8
Beryllium, Be	< 0.10	ug/L	U	0.50	0.10	DAM	07/05/2013	EPA 200.7
Selenium, Se	512	ug/L		0.50	0.20	DPC	07/01/2013 12:05	EPA 200.8
Aluminum, Al	0.081	mg/L		0.020	0.0060	DAM	07/05/2013 18:29	EPA 200.7
Boron, B	189	mg/L		0.020	0.0040	DAM	07/05/2013 18:29	EPA 200.7
Iron, Fe	0.634	mg/L		0.050	0.010	DAM	07/05/2013 18:29	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	1.54	mg/L		0.50	0.10	DMM	06/28/2013	EPA 351.2
Nitrate-Nitrite, NO3-NO2, as N	26.6	mg/L		0.10	0.020	DMM	06/28/2013	SM20 4500NO3 H
Phosphorus, Total, P	0.044	mg/L	J	0.050	0.010	DMM	06/28/2013	EPA 365.4

2nd Stage Feed

Sample Number: 132618-002 **Date Collected: 06/26/2013 08:00** **Date Received: 6/26/2013**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	56.3	ug/L		0.10	0.030	DPC	07/01/2013 12:10	EPA 200.8
Beryllium, Be	< 0.10	ug/L	U	0.50	0.10	DAM	07/05/2013	EPA 200.7
Selenium, Se	171	ug/L		0.50	0.20	DPC	07/01/2013 12:10	EPA 200.8
Aluminum, Al	10.1	mg/L		0.020	0.0060	DAM	07/05/2013 18:36	EPA 200.7
Boron, B	171	mg/L		0.020	0.0040	DAM	07/05/2013 18:36	EPA 200.7
Iron, Fe	2.47	mg/L		0.050	0.010	DAM	07/05/2013 18:36	EPA 200.7

Bioreactor Effluent


Sample Number: 132618-003 **Date Collected: 06/26/2013 08:00** **Date Received: 6/26/2013**

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	0.66	ug/L		0.10	0.030	DPC	07/01/2013 12:15	EPA 200.8
Beryllium, Be	< 0.10	ug/L	U	0.50	0.10	DAM	07/05/2013	EPA 200.7
Selenium, Se	3.4	ug/L		0.50	0.20	DPC	07/01/2013 12:15	EPA 200.8
Aluminum, Al	13.2	mg/L		0.020	0.0060	DAM	07/05/2013 18:44	EPA 200.7
Boron, B	136	mg/L		0.020	0.0040	DAM	07/05/2013 18:43	EPA 200.7
Iron, Fe	8.48	mg/L		0.050	0.010	DAM	07/05/2013 18:43	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	3.29	mg/L		0.50	0.10	DMM	06/28/2013	EPA 351.2
Nitrate-Nitrite, NO3-NO2, as N	0.098	mg/L	J	0.10	0.020	DMM	06/28/2013	SM20 4500NO3 H
Phosphorus, Total, P	1.12	mg/L		0.050	0.010	DMM	06/28/2013	EPA 365.4

Location: Mountaineer Plant

Report Date: 7/11/2013

U: Analyte was analyzed and not detected at or above adjusted Method Detection Limit
J: Analyte was positively identified, though the quantitation was below Reporting Limit.



Brian Snyder, Chemist II

Email bsnyder@aep.com

Tel. 614-836-4224

Fax 614-836-4168

Audinet 210-4224

THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF THE LABORATORY. ALL TEST RESULTS MEET ALL OF THE REQUIREMENTS OF THE ACCREDITING AUTHORITY, UNLESS OTHERWISE NOTED.